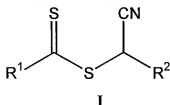


## AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A polymerization process comprising

a. combining:

at least one chain transfer agent of formula I,



at least one monomer susceptible to free radical polymerization, and  
a free radical initiator, and;

b. generating free radicals;

wherein

~~R¹ is selected from alkyl, substituted alkyl, heteroaryl, substituted heteroaryl, aryl, substituted aryl, alkoxy, aryloxy, thioalkyl, thioaryl, substituted thioalkyl, substituted thioaryl, secondary amino, and tertiary amino; and~~

~~R² is selected from alkyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl, and -COOR² and~~

~~R² is alkyl.~~

whereby a polymer, comprising repeating units derived from said at least one monomer, is formed.

2. (Cancelled)

3. (Original) A polymerization process according to claim 1, wherein R¹ is aryl.

4. (Original) A polymerization process according to claim 1, wherein R¹ is substituted aryl.

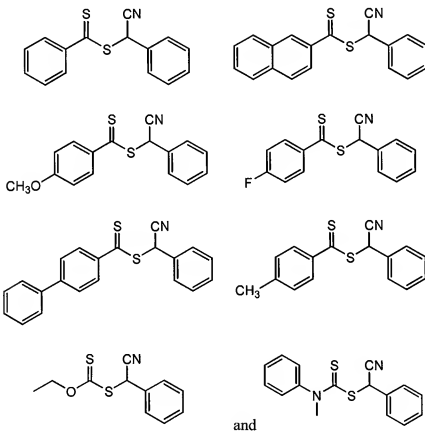
5. (Original) A polymerization process according to claim 1, wherein R¹ is alkoxy.

6. (Currently Amended) A polymerization process according to claim 1, wherein R<sup>1</sup> is ~~secondary or tertiary amino~~.

7. (Cancelled)

8. (Cancelled) A polymerization process according to claim 1, wherein R<sup>2</sup> is phenyl.

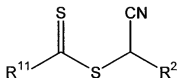
9. (Currently Amended) A polymerization process according to claim 1, selected from the group consisting of



10. (Original) A polymerization process according to claim 1, wherein said at least one monomer is selected from the group consisting of vinyl monomers, acrylic and methacrylic acid, acrylate and methacrylate esters, styrene, fumarates, maleic

anhydride, maleimides, and mixtures thereof.

11. (Currently Amended) A compound of formula II



II

wherein

~~R<sup>11</sup> is selected from alkyl, substituted alkyl, heteroaryl, substituted heteroaryl, alkylaryl, substituted alkylaryl, aryl[[[:]]] or substituted aryl, aryloxy, thioalkyl, thioaryl, substituted thioalkyl, and substituted thioaryl; and~~

~~R<sup>2</sup> is selected from alkyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl, and COOR<sup>3</sup> and~~

~~R<sup>3</sup> is alkyl.~~

12. (Currently Amended) A compound according to claim 11, wherein R<sup>11</sup> is selected from aryl and substituted aryl.

13. (Currently Amended) A compound according to claim 11, wherein R<sup>11</sup> is aryl.

14. (Currently Amended) A compound according to claim 11, wherein R<sup>11</sup> is substituted aryl.

15. (Currently Amended) A compound according to claim 11, wherein R<sup>11</sup> is phenyl

16. (Cancelled)

17. (Original) A compound according to claim 11, wherein R<sup>2</sup> is phenyl.

18. (Currently Amended) A compound according to claim 11, selected from the group consisting of

